

Supplementary Table 8. Univariate Cox proportion hazards regression analysis for RFS and OS in validation cohort (n=240)

Characteristics		Recurrence-free survival		Overall survival	
		HR (95% CI)	P-value	HR (95% CI)	P-value
Age	Continues	1 (0.99 to 1.02)	0.612	1.01 (0.99 to 1.03)	0.223
Age, years	≤50	1 (referent)		1 (referent)	
	>50	1.14 (0.70 to 1.85)	0.598	1.25 (0.77 to 2.03)	0.364
Gender	Female	1 (referent)		1 (referent)	
	Male	1.32 (0.934 to 1.86)	0.116	1.29 (0.92 to 1.83)	0.143
HBsAg	Negative	1 (referent)		1 (referent)	
	Positive	0.65 (0.45 to 0.94)	0.002	0.67 (0.46 to 0.97)	0.033
AFP, ng/mL	≤20	1 (referent)		1 (referent)	
	>20	0.69 (0.36 to 1.31)	0.254	0.67 (0.35 to 1.27)	0.217
CA19-9, U/L	≤36	1 (referent)		1 (referent)	
	>36	1.63 (1.15 to 2.31)	0.007	1.59 (1.12 to 2.26)	0.010
GGT, U/L	≤54	1 (referent)		1 (referent)	
	>54	2.01 (1.44 to 2.82)	<0.001	1.91 (1.36 to 2.67)	<0.001
Liver cirrhosis	No	1 (referent)		1 (referent)	
	Yes	0.69 (0.46 to 1.02)	0.064	0.73 (0.49 to 1.09)	0.124
Tumor size, cm	≤5	1 (referent)		1 (referent)	
	>5	2.16 (1.54 to 3.04)	<0.001	1.92 (1.36 to 2.69)	<0.001
Tumor number	Single	1 (referent)		1 (referent)	
	Multiple	1.96 (1.37 to 2.81)	<0.001	1.96 (1.36 to 2.81)	<0.001
LVI	No	1 (referent)		1 (referent)	
	Yes	2.29 (1.59 to 3.29)	<0.001	2.24 (1.56 to 3.32)	<0.001
Lymphatic metastasis	No	1 (referent)		1 (referent)	
	Yes	3.13 (2.04 to 4.81)	<0.001	3.11 (2.03 to 4.77)	<0.001
Tumor encapsulation	Complete	1 (referent)		1 (referent)	
	None	0.95 (0.57 to 1.58)	0.844	0.95 (0.57 to 1.58)	0.852
Tumor differentiation	I+II	1 (referent)		1 (referent)	
	III+IV	1.4 (0.97 to 2.01)	0.039	1.5 (1.04 to 2.16)	0.028
Tumor stage	I	1 (referent)		1 (referent)	
	II+III+IV	1.99 (1.42 to 2.78)	<0.001	1.93 (1.38 to 2.70)	<0.001
CD3	Low (≤40)	1 (referent)		1 (referent)	
	High (>40)	0.58 (0.41 to 0.83)	0.002	0.66 (0.47 to 0.94)	0.021
CD4	Low (≤110)	1 (referent)		1 (referent)	
	High (>110)	0.48 (0.33 to 0.7)	<0.001	0.56 (0.38 to 0.81)	0.002
CD8	Low (≤30)	1 (referent)		1 (referent)	
	High (>30)	0.66 (0.47 to 0.93)	0.016	0.71 (0.51 to 0.99)	0.043
Foxp3	Low (≤14)	1 (referent)		1 (referent)	
	High (>14)	1.57 (1.12 to 2.20)	0.008	1.54 (1.1 to 2.15)	0.012
CD68	Low (≤207)	1 (referent)		1 (referent)	
	High (>207)	1.33 (0.95 to 1.88)	0.010	1.43 (1.01 to 2.01)	0.043
CD66b	Low (≤480)	1 (referent)		1 (referent)	
	High (>480)	1.66 (1.14 to 2.40)	0.008	1.73 (1.19 to 2.5)	0.004
Stroma	Dormant	1 (referent)		1 (referent)	
	Fibrogenic	2.10 (1.21 to 3.64)	0.009	1.99 (1.15 to 3.46)	0.015
	Inert	2.25 (1.29 to 3.93)	0.004	2.24 (1.29 to 3.92)	0.004
	Fibrolytic	4.86 (2.75 to 8.60)	<0.001	4.04 (2.29 to 7.10)	<0.001

CI, confidence interval; AFP, alpha-fetoprotein; GGT, gamma glutamyl transferase; CA 19-9, carbohydrate antigen 19-9; LVI, lymphatic vascular invasion.